

MISTED AIR CLEANING SYSTEM AND RELATED METHOD

ABSTRACT OF THE DISCLOSURE

5 A system and related method for cleaning structures including
structures with interior surfaces. The system includes a mixing chamber for
selectively combining a cleaning gas and liquid droplets together so that the
droplets are entrained in the gas. The combination is directed to the structure
to be cleaned. The velocity of the gas combined with the density of the liquid
droplets provides a washing momentum to effect removal of particulate matter
from the structure. The system also includes a condenser and a separator for
separating the liquid from the gas after cleaning. A filter is employed to
isolate and measure the quantity of particulate removed from the cooling
circuit. A rotameter forms part of the system and is used to measure the
accumulated quantity of liquid suitable for effecting a satisfactory cleaning.
The system and related cleaning method may be used to clean the cooling
system of a rotor bucket.